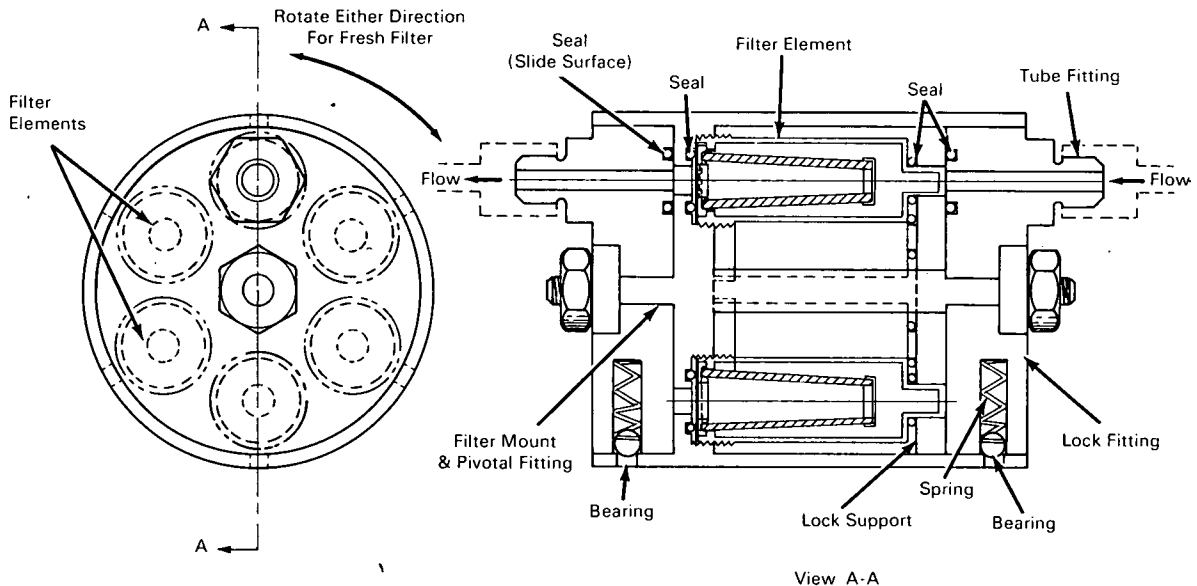


NASA TECH BRIEF



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Replacement of Fluid-Filter Elements Without Interruption of Flow



A novel Gatling-type filter assembly, preloaded with several filter elements (six in the device shown), enables filter replacement without actual breaking into the operative fluid system.

The filter assembly is a unit composed of six separate filters with six index positions. When a filter element becomes plugged or contaminated, the unit inner subassembly is rotated 60 degrees (remotely or manually), thus positioning a new, clean filter in the line.

The device was developed primarily for continuous filtration of liquid wastes in spacecraft, but can be adapted for use in other gas- or liquid-filtration systems, particularly those in areas of limited accessibility.

Notes:

- Documentation is available from:
Clearinghouse for Federal Scientific
and Technical Information
Springfield, Virginia 22151
Price \$3.00
Reference: TSP69-10245

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

Source: R. A. Kotler and J. B. Ward of
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Manned Spacecraft Center
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Category 05